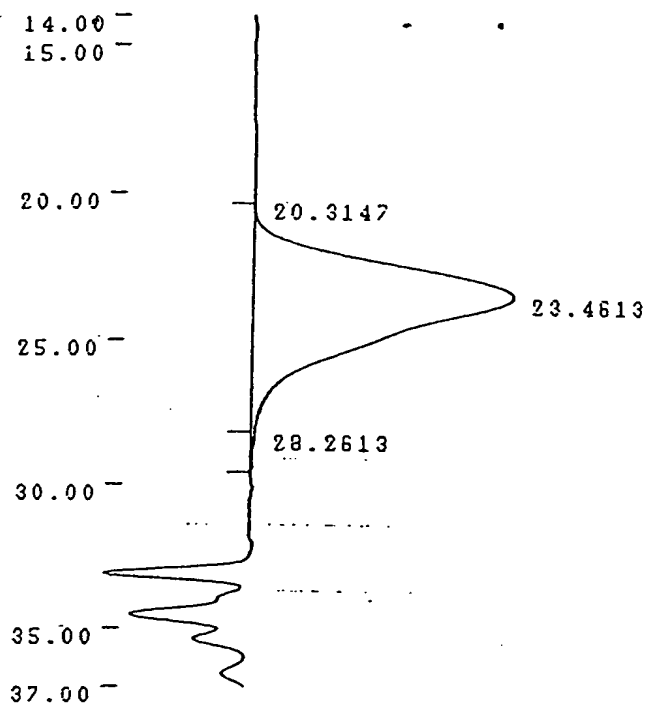


The infrared spectrum of 2,4-dinitrophenol shows characteristic absorption bands. The x-axis represents the wavenumber in cm⁻¹, ranging from 4000.0 to 400.0. The y-axis represents the percentage of transmittance (%T), ranging from 5.0 to 101.0. The spectrum features several sharp peaks, particularly in the fingerprint region (below 1500 cm⁻¹) and the C-H stretching region (around 3000 cm⁻¹). The following table lists the labeled peaks in the spectrum:

Wavenumber (cm ⁻¹)
3626
2915
2864
2670
1859
1782
1716
1633
1566
1449
1376
1360
1252
1218
1148
1102
1091
1045
1021
955
929
883
840
763
696
583

3626.9	90.1	2915.5	19.9	2864.1	37.9	2670.0	91.1	1859.1	40.8
1782.3	6.3	1716.3	21.7	1633.7	88.8	1506.0	77.5	1449.8	42.9
1376.8	52.2	1360.3	57.1	1252.0	19.5	1218.2	25.2	1148.3	38.4
1102.8	18.0	1091.1	18.3	1045.0	48.6	1021.6	52.9	955.2	30.1
929.9	27.9	885.8	39.9	840.0	20.6	763.8	70.4	696.1	66.9
583.4	84.7								

FIG. 2



CHANNEL 1
 METHOD 0,0,4,3

CALIBRATION OFF

NO.	NAME	RET TIME	AREA	MARK	ID#	CONC	CONC %
1		20.3147	96.1	M I	1	96.1277	0.0042
2		23.4613	2280773.8	M I	2	2280773.7500	99.6871
3		28.2613	7062.7	M I	3	7062.6992	0.3087
TOTAL			2287932.8			2287932.5770	100.0000

CALIBRATION DATA

3 ORDER REGRESSION

LOG M = $a \cdot T^3 + b \cdot T^2 + c \cdot T + d$

a = -6.509859E-004

b = 5.063016E-002

c = -1.552977E+000

d = 2.123975E+001

PEAK TOP RT = 23.5750 : M = 17299
 MN = 11243
 MW = 18729 MW/MN = 1.6658
 MZ = 27080 MZ/MN = 2.4087